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Amendments to the Specification:

Please amend the Title as amended by the Amendment Under Rule 111 and Petition and Fee For Extension of Time filed on _____, 2003 ("the Rule 111 Amendment") as follows:

~~Fluid Flow~~ Purge Gas Sensor

Please delete the Summary of the Invention as amended by the Rule 111 in its entirety and inserting in place thereof the following paragraphs:

The present invention is an instrument that has an enclosure that has an opening through which a fluid can flow. The instrument also has first and second differential pressure switches. The instrument further has a sealed chamber in the opening. The chamber has only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber also has first and second restrictors through which the fluid ~~must~~ can flow ~~in its entirety~~; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches, the pressure in the enclosure to the first switch and the pressure at the sealed chamber outlet to the second switch.

The present invention is also a flow sensor for use in an instrument. The flow sensor has first and second differential pressure switches and a sealed chamber. The sealed chamber has ~~an~~ only one inlet and an outlet through which a fluid ~~must~~ can flow ~~in its entirety~~ and only one path between the only one inlet and the outlet; a flow restrictor in the only one inlet and a flow restrictor in the outlet; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches.

The present invention is also a flow sensor for use in an instrument. The flow sensor has a sealed chamber. The sealed chamber has ~~an~~ only one inlet, ~~and an outlet through which a fluid must flow in its entirety~~ and only one path between the inlet and the outlet through which the fluid can flow; a flow

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restrictor in the only one inlet and a flow restrictor in the outlet; and means for transferring the pressure in the sealed chamber to first and second differential pressure switches.

The present invention is also the combination of an instrument that has an enclosure having an opening through which a fluid can flow and a flow sensor. The flow sensor has first and second differential pressure switches; and a sealed chamber in the opening, with the chamber having only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber has first and second restrictors through which the fluid ~~must~~ can flow ~~in its entirety~~; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches, the pressure in the enclosure to the first switch and the pressure at the sealed chamber outlet to the second switch.

The present invention is further an instrument that has an enclosure having an opening through which a fluid can flow. The instrument also has a first pressure transducer in the enclosure and a second pressure transducer outside of the enclosure. The instrument further has a sealed chamber in the opening and the chamber has only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber has first and second flow restrictors through which the fluid ~~must~~ can flow ~~in its entirety~~. The chamber also has means for transferring the pressure in the sealed chamber to the first and second pressure transducers. The chamber further has means connected to the first and second pressure transducers for calculating for any given rate of flow of the fluid through the sealed chamber the flow through the outlet.

The present invention is a method for detecting the flow of a fluid through an enclosure having an outlet device through which the fluid can flow. The outlet device has a sealed chamber with only one inlet, an outlet, only one path between the only one inlet and the outlet through which the fluid can

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flow and a flow restrictor in the only one inlet and a flow restrictor in the outlet ~~first and second restrictors~~ through which the fluid ~~must~~ can flow in ~~its entirety~~. The method transfers the pressure in the sealed chamber to first and second differential pressure switches; transfers the pressure in the enclosure to the first switch; and transfers the pressure outside of the enclosure to the second switch.

The present invention is also a method for detecting a blockage in the outlet of a purged enclosure having an outlet monitoring device in the outlet. The outlet monitoring device has a sealed chamber with only one inlet, an outlet, only one path between the only one inlet and the outlet through which the fluid can flow and a flow restrictor in the only one inlet and a flow restrictor in the outlet ~~first and second restrictors~~ through which a purging fluid ~~must~~ can flow in ~~its entirety~~. The method flows the purging fluid into the enclosure; monitors at a first differential pressure switch the difference in pressure between the pressure in the enclosure and the sealed chamber that results from the purging fluid flow through the first restrictor of the outlet device; monitors at a second differential pressure switch the difference in pressure between the sealed chamber pressure and the pressure outside of the enclosure that results from the purging fluid flow through the second restrictor of the outlet device; and determines that either the first or second restrictors are blocked when the second or the first switches, respectively, are open when the purging fluid flows.